

DQ-A / Service UB00068 / FR CLE OOG 0 01

Service incidentologie & industrie e-powertrain / batterie

Usine Renault de Cléon - CD 7 - 76410 CLEON

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Quality Problem Situation

2024-4-19810352-

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Theme HHN - 5DH402 Cléon, 04/04/2024

Objective To send out technical documentation and elements of analysis about the problem

Expectation To read this document

Orie	entation	NASA		FIC	4	1-19810352					
Product		Design		Other>		/					
Process			Performance	Э	None>	None> /					
Ref	erence										
	VIN/PJI	PJI VF1RHN00571750672		Project	HHN	PWT#	C071918	18 FIC		4-19810352	
	Offline date	e 03/11/2023		Delivery date	07/12/2023	Incident date	16/01/2024	Mileage (k	cm)	1926km	
	Plant Palencia		Country	Italy	City Zeno N		aviglio N		E611		
	Supplier	00278911	DELTA	ELECTRONICS	THAILAND C	Part Nb	292A0	01152RTA314	440063		
Des	cription of t	he problem									

Customer

message "système elec à controler" on dashboard



Physical henomenon

DTC \$1AA1-FT\$49 Internal_Failure

Probable cause(s) to investigate

check for internal failure

Summary and comments

As part of the E-Tech M analyze, we received a PEB for analysis.

SAI analysis:

- visual inspection : OK
- static test : OK
- dynamic test : NOK

customer effect reproduced after less than 30km, message "systeme elec a controler" on dashboard with DTC \$1AA1-FT\$49 Internal_Failure and associated DID \$EF01 = 1A Plausibility between Input current sensor and LLC current sensor (see P2).

Conclusion:

The DCDC converter **A31440063** is not compliant, part will be sent to the supplier to determine root cause of the failure.

vai	idation	and	snaring

Validated by S. Lemoine

E. Mougel, S. Lemoine

References

Addition to Customer Effect, context and problem definition

DDT2000 reading faults

Evidences for failure modes and causes

LBC (HEV)_29b - RBMS_MCPU_EV2020_300x_50xx_CL_V1.7 Some devices are still under test
LBC2_29b - RBMS_SCPU_EV2020_300x_50xx_CL_V1.7 Failures detected

 CAN from EVC/HEVC Historical Failure

Superviseur-DCDC_29b - 5DH_DCDC_DELTA_S1S_S1M_v2.1 Failures detected

 Internal_Failure Current Failure

(H) EVC-HCM-VCM_29b - VC1CP010_A201_0920_C1A_HS_V1.1 No failure detected
HVSG_29bits - INVHSG_630B_487_V1.1 No failure detected
INV-ME_29b - INVME_6306_488_V1.0 No failure detected
S-GW4 - C1A-HS_CGW_SW3_DoCAN_v1.0 No failure detected

Data identifier		ataRead.Supplier_Fault_Code	\$E	EF01		
Supplier_Fault_Code			1A			
Data identifier		DataRead.Mileage	\$F	F0D0		
Mileage		588226	588 22 6 km			
Data identifier	Dat	aRead.DTC_occurrence_counter	\$F	F0D1		
DTC_occurrence_counter		3		3		
Data identifier		DataRead.DCDC_WaterTemp	SC	0300		
DCDC_WaterTemp		34,3	34,	,3 °C		
Data identifier	Dat	aRead.DCDC_Temp_Normalized	\$0	0301		
DCDC_Temp_Normalized		44	44 %			
Data identifier	D	ataRead.DCDC_Input_Voltage	\$0310			
DCDC_Input_Voltage		361,9	361,9 V			
Data identifier	Da	ataRead.DCDC_OutputVoltage1	\$0	\$0311		
DCDC_OutputVoltage1		13,5	13,5 V			
Data identifier	Da	ataRead.DCDC_OutputVoltage2	\$0312			
DCDC_OutputVoltage2		13,51	13,51 V			
Data identifier		ataRead.DCDC_Input_Current	\$0320			
DCDC_Input_Current		4,54	4,54 A			
Data identifier	DataRead	d.DCDC_CAN_Transmitted_OutputCurre	utCurrent \$0321			
DCDC_CAN_Transmitted_OutputCurrent		56	56 A			
Data identifier	DataR	ead.DCDC_CAN_Transmitted_State	\$0400			
DCDC_CAN_Transmitted_State		2	Direct			
Data identifier		DataRead.DCDC_CAN_Received_Abs	oluteTimeSince1rstIgnition_HV	\$F0D2		
DCDC_CAN_Received_AbsoluteTimeSince1rstlg	nition_HV	734338		734338 min		

Monitoring of measurement devices										
Device	Life cycle file	Next verif. Date	Color Cod.	>		>	>	>		
	>	>	>	>		>	>	>	Renault Confidential C	
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